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Approved For Release 2003/05/14 : CIA-RDP78B05171A000600020079-6

NPIC/TSSG/RED-1796-69
12 September 1969

MEMORANDUM FOR THE RECORD

SUBJECT : Review of Imagery Interpretation Research Program

REFERENCE: (a) NPIC/TSSG/DED-1214-68 [] memo re subject dated 23 May 1968
(b) [] report DK-368 re subject dated January 1969
(c) [] report DK-400 re subject dated April 1969

1. Purpose. The purpose of this review is to evaluate the applicability and the extent of actual application of the products of the subject program to assure that future effort is particularly appropriate and that maximum utility is being realized from usable products.

2. Following is a listing of the projects which are briefly described in reference (a).

FY-1966, [] June 1966-May 1967

- a. SOA Review (Related Human Factors Research)
- b. SOA Applications (Techniques & Equipment)
- c. Experimental Programs
 - (1) Illumination and Interpreter Performance
 - (2) Ultra Sonil Optometer Development
 - (3) Quantitative Determination of Image Quality
 - (4) The Effects of Work Pacing and Teaming
- d. Program Definitions
 - (1) Interpreter Performance Measures
 - (2) Stereo Viewing Program Definition
- e. Associated Contracts Review
- f. Five-year Human Factors Research Plan. (10 Areas of Major Interest)

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25X1

FY-1967, [] May 1967-April 1968

a. Interpreter Performance Measures

- (1) Performance Measure Development
- (2) Additional Performance Measure Requirements
- (3) Image Data Bank

b. TICOF

- (1) Facility Design
- (2) Utilization Plan

c. Interpreter/Machine Dynamics

25X1

(1) [] (ATR)

25X1

(2) [] (ASS)

25X1

(3) [] (HPSC)

25X1

(4) [] (Adv RPV)

25X1

(5) [] (Ambient Illum Study)

d. Image Characteristics

e. Image Utilization

- (1) Stereo Viewing Study
- (2) Microscope Design Criteria

f. Visual Mechanisms

g. Training

- (1) Zoom 70 Training Package
- (2) Training Survey

h. Mensuration

- (1) Task Analysis
- (2) Accuracies of Instruments & Operators

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(3) Mensuration Improvement Program

1. State-of-the-Art Review

(1) Bibliography

(2) Summaries

(3) Human Engineering Design Guide

j. Consultation

(1) Interpreter Visual Performance Survey

(2) Collimated Lighting System

(3) Support to Equipment Development Contractors

(a) ☐ HPSC

(b) ☐ ASS

(c) ☐ ICM

k. Long Range Recommendations

(1) Integrated Equipment Development

(2) Improve Man/Machine Relationships

(3) Introduce Technology Advances

(4) Enhance Personnel Performance

(5) Improve Collateral Support

FY-1968, ☐ May 1968-January 1969

a. Equipment Development Support (1a)

(1) Advance Light Table (1540)

(2) TICOF Master Use Plan

(3) Digitized Measure Light Table

(4) TICOF 940 Light Table Evaluation

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- (5) Evaluation Advance Rhomboids II
- (6) Twin-Stage PI Comparator
- (7) Auto Target Recognition
- (8) HPSC
- (9) Image/Map Correlation Aid
- (10) Small Project Support
- b. Equipment Development Support (1b)
 - (1) Advanced PI System
 - (2) Special Consultation
- c. Mensuration Improvement
 - (1) Absolute Accuracy of Mensuration
 - (2) PG's vs PI's
- d. SOA Review
 - (1) Bibliography
 - (2) SOA Summaries
 - (3) Human Engineering Design Guide
- e. General Consulting
 - (1) HPSC
 - (2) General Optical Instrument Design

FY-1969/1970,

Phase I, February 1969 - November 1969

- 1. Mid-70's PI System
- 2. TICOF Utilization
Binoc Tube Mag, Adv Rhomboids, Zoom 240

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3. Equipment Design Support
4. Microscope Design (Convergence)
5. Refine Mensuration Techniques
6. Support Precise Measurement Study
7. Validate Area Specialist
8. Assess PI Target Knowledge
9. State-of-the-Art Studies

Phase II, January 1970-September 1970

10. TICOF Utilization
11. Equipment Design Support
12. Microscope Design (FOV)
13. Edge Definition Training
14. Target Recognition Training
15. State-of-the-Art Studies

Record of Terms and Expenditures

FY-66

11 Months

FY-67

11 Months

FY-68

8 Months

FY-69

18 Months

(Thru
Aug '70)

(2 Phases Each 9 Months)

TOTAL: over 4 Calendar Years

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